

1 **PART 1 - GENERAL**

2 DESCRIPTION

3 Provide Heating, Cooling, and Ventilating Equipment as specified herein and shown on the Drawings.

4  
5 Equipment capacity and size shall be as indicated on the Drawings.

6  
7 Related Work: The requirements of Section 23 05 00, Common HVAC Materials and Methods, also apply to  
8 this section.

9  
10 QUALITY ASSURANCE

11 Air Handling Equipment: Rated in accordance with AMCA certified rating procedures and AMCA labeled.

12  
13 Air Conditioning and Refrigeration Equipment Rating: Rated in accordance with ARI certified rating  
14 procedures and ARI labeled.

15  
16 See Commissioning specification for additional requirements.

17  
18 SUBMITTALS

19 Submit catalog data, construction details and performance characteristics for each HVAC unit.

20  
21 Submit operating and maintenance data.

22 **PART 2 - PRODUCTS**

23 SMALL PACKAGED HVAC UNITS

24 Non-Ducted, Split System Cooling Unit:

25 Indoor Section: Non-ducted, compact fan coil unit designed for wall mounting.

26 Outdoor Section: Capacity matched with indoor section, steel cabinet with hermetically sealed  
27 compressor, accumulator, crankcase heater, high and low pressure switches, restart delay relay, and  
28 propeller fans.

29 Refrigerant Piping: See Section 23 23 00.

30 Unit shall be R-410A

31 Power for indoor unit shall be derived from outdoor unit for systems smaller than 2-1/2 tons.

32 Provide with integral pump for location where gravity drain is not indicated on drawings.

33 Provide with hard wired wall mounted thermostat / controller

34 Acceptable Manufacturers: Mitsubishi, LG, or Daikin.

35 Minimum efficiency shall be 18 SEER per AHRI 210/240 test procedure.

36

37 **PART 3 - EXECUTION**

38 INSTALLATION

39 Install and arrange equipment as shown on the Drawings and as recommended by the equipment  
40 manufacturer.

41  
42 Piping: Refer to applicable sections for piping, ductwork, insulation, painting, etc.

43  
44 Manufacturer's Field Service: Engage a factory authorized service representative to inspect field assembled  
45 components and equipment installation, to include electrical and piping connections. Report results to A/E in  
46 writing. Inspection must include a complete startup checklist to include (as a minimum) the following:  
47 Completed Start-Up Checklists as found in manufacturer's IOM.

48  
49 Engage a factory authorized service representative to perform startup service. Clean entire unit, comb coil  
50 fins as necessary and clean filters. Measure and record electrical values for voltage and amperage. Refer to  
51 Division 23 "Testing, Adjusting and Balancing" and comply with provisions therein.

52  
53 Engage a factory authorized service representative to train owner's maintenance personnel to adjust, operate  
54 and maintain the unit. Refer to Division 01 Section Closeout Procedures and Demonstration and Training.

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**CONTROLS**

Wiring: All wiring shall be in accordance with the National Electrical Code and local electrical codes.

**END OF SECTION**